


11905 EVERIDGE PL

19715401

1/7/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
*Barcode Font = IDAutomationHC39M*

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 4904 B  WASPS App #: 2272

Primary ES assigned to project: D C

Secondary ES assigned to project:

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

| Rule or Law | | | | |
|---|---|---|---|---|
| | **Permit Application** | | | |
| .1937(d) | Is the Application complete | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Is there a Site plan/Plat with application | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Is the Facility shown? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(d) | Are appurtenances shown | Yes ☑ | No ☐ | N/A ☐ |
| | **Site Evaluation Information** | | | |
| .1939 (a)(1) | Topography and Landscape Position Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1940 (a-g) | Slope % Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Texture Class Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Structure type Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Consistence Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(2) | Mineralogy Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1939 (a)(3) | Soil Wetness Condition Recorded? | Yes ☐ | No ☐ | N/A ☑ |
| .1939 (a)(4) | Soil Depth to Rock or Parent Material Recorded When Encountered | Yes ☐ | No ☐ | N/A ☑ |
| .1939 (a)(5) | Depth to Restrictive Horizons Recorded When Encountered? | Yes ☐ | No ☐ | N/A ☑ |
| .1939 (a)(6) | Sufficient Available Space Recorded? | Yes ☑ | No ☐ | N/A ☐ |
| .1937(m) | Are the Profile Locations Shown? | | | |
| .1939(a) | Are the S/PS Profiles in system & in repair area? | Yes ☑ | No ☐ | N/A ☐ |
| & .1945(b) | Number of auger borings made: 9 Were sufficient auger borings made? | Yes ☐ | No ☐ | N/A ☐ |
| .1939(d), .1955, .1956, .1957 | LTAR 2.67 | Yes ☐ | No ☐ | N/A ☐ |
| | **Improvement Permit/Construction Authorization** | | | |
| .1937(g) .130A-336(a) | Proposed System Type stated-Initial | Yes ☑ | No ☐ | N/A ☐ |
| .1945(b) .130A-336 | *Proposed System Type stated-Repair* System location identifiable by setbacks - Initial | Yes ☑ | No ☐ | N/A ☐ |
| (a)(3) .1937(g) .1945(b) | System components shown – Initial | Yes ☑ Yes ☑ | No ☐ No ☐ | N/A ☐ N/A ☐ |
| .1945(b) .1937 (f)(g) | Repair area shown Does System design match facility flow & WWcharacteristics? | Yes ☑ | No ☐ | N/A ☐ |
| .1937 (f)(g) | Is System design consistent with soil/site conditions? | Yes ☑ | No ☐ | N/A ☐ |
| .1937 (f)(g) .130A-336(a) | Is the System located in the approved area? Is the Design flow (gpd) indicated? | Yes ☑ Yes ☑ Yes ☐ | No ☐ No ☐ No ☐ | N/A ☐ N/A ☐ N/A ☐ |

| | | | | |
|---|---|---|---|---|
| 130A-336(a) | Number of Bedrooms, employees, seats, etc. indicated? | | | |
| 1937(g) | Trench depth indicated? | Yes ☑ | No ☐ | N/A ☐ |
| 1937(g) | Trench width indicated? | Yes ☑ | No ☐ | N/A ☐ |
| 1937(g) | Trench length indicated? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a)(1) | Proposed/existing well shown? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a)(1) | Property line lengths shown? | Yes ☑ | No ☐ | N/A ☐ |
| 130A-336(a) | Facility/appurtenance setbacks shown from fixed points? | Yes ☑ | No ☐ | N/A ☐ |
| | | Yes ☑ | No ☐ | N/A ☐ |
| 1937(i) | Operation Permit<br>System type as described in table V(a) of rule .1961 | Yes ☐ | No ☐ | N/A ☐ |
| 1937(i) | Conditions for system performance, operation, maintenance, monitoring and reporting. | Yes ☐ | No ☐ | N/A ☐ |

H. WASPS Review:

| | | | |
|---|---|---|---|
| Construction authorization issued | Yes ☐ | No ☐ | N/A ☐ |
| Installation approval issued | Yes ☐ | No ☐ | N/A ☐ |
| Operation permit issued | Yes ☐ | No ☐ | N/A ☐ |
| Other related documentation | Yes ☐ | No ☐ | N/A ☐ |

Comments: # Items requiring correction/modification: _____

_____

_____

_____

_____

_____

IA issued date: _____

OP issued date: _____

Review performed by: VR Date performed: 7-25-07

FEE: 300.00
DATE: 7/26/2007

# CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

**MECKLENBURG COUNTY**
**GROUNDWATER & WASTEWATER SERVICES**

**FILE NUMBER:** 4904B

**PERMIT NUMBER:** 30002272

**PARCEL NUMBER:** 19715401

**JOB LOCATION INFORMATION**

**ADDRESS:** 11905 EVERIDGE PL

**CITY:** CHARLOTTE **STATE: NC** **ZIP:** 28227

**ISSUED TO:** SANTIAGO & NOEMI CRUZ

**CONSTRUCTION AUTHORIZATION ISSUANCE DATE:** 7/26/2007

## CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30002272, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, NOT TO EXCEED 60 MONTHS.
   *CONSTRUCTION AUTHORIZATION EXPIRATION DATE: 7/25/2012

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St. Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30002272 GWS File #: 4904B Tax Parcel #: 197-154-01

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

**I. This Improvement Permit Shall:** Expire in Five (5) Years **Expiration Date (If Applicable):** 7/25/2012

Type of Installation: Residential - New System Lot Number: 13

Structure Type: HOUSE Size ($ft^2$): 5461 # Bedrooms: 4 # Occupants: 4

Building Foundation: Crawl Space Water Supply: Private Well

**II. Initial System Type:** Innovative **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd): 460 LTAR (gpd/$ft^2$): 0.267 Septic Tank Size (gal): 1500 Pump Tank Size (gal): N/A

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area ($ft^2$): 1348 Total Trench Length (ft): 449

Maximum Trench Depth (in): 16 Depth of Media (in): N/A Distribution Device: Distribution Box

**III. Repair System Type:** Drip Irrigation **System Classification:** Va

Repair System Specifications:

Design Flow (gpd): 460 LTAR (gpd/$ft^2$): 0.267 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1000

Trench Width (ft): 0.5 Trench Spacing (ft): 2 Absorption Area ($ft^2$): 1798 Total Trench Length (ft): 899

Maximum Trench Depth (in): 6" Depth of Media (in): N/A Distribution Device: Headworks (Drip Irr.

**IV. Permit Conditions/Comments:**

*(Please See the Following Page for Permit Conditions.)*

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: David Cornelius Owner/Legal Agent: Noemi Cruz
Print Name

Signature: Signature:

Date Issued: 7/25/2007

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700 N. Tryon St. Suite 211 Charlotte, NC 28202
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## IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: 30002272 GWS File #: 4904B

**IV. Permit Conditions/Comments:**

- Additional soil cover, as specified on the plot plan, required over the drain field must be inspected and approved prior to issuance of an Operation Permit.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- Install according to plans on file submitted by Larry Thompson and The Catena Group,7/3/07.

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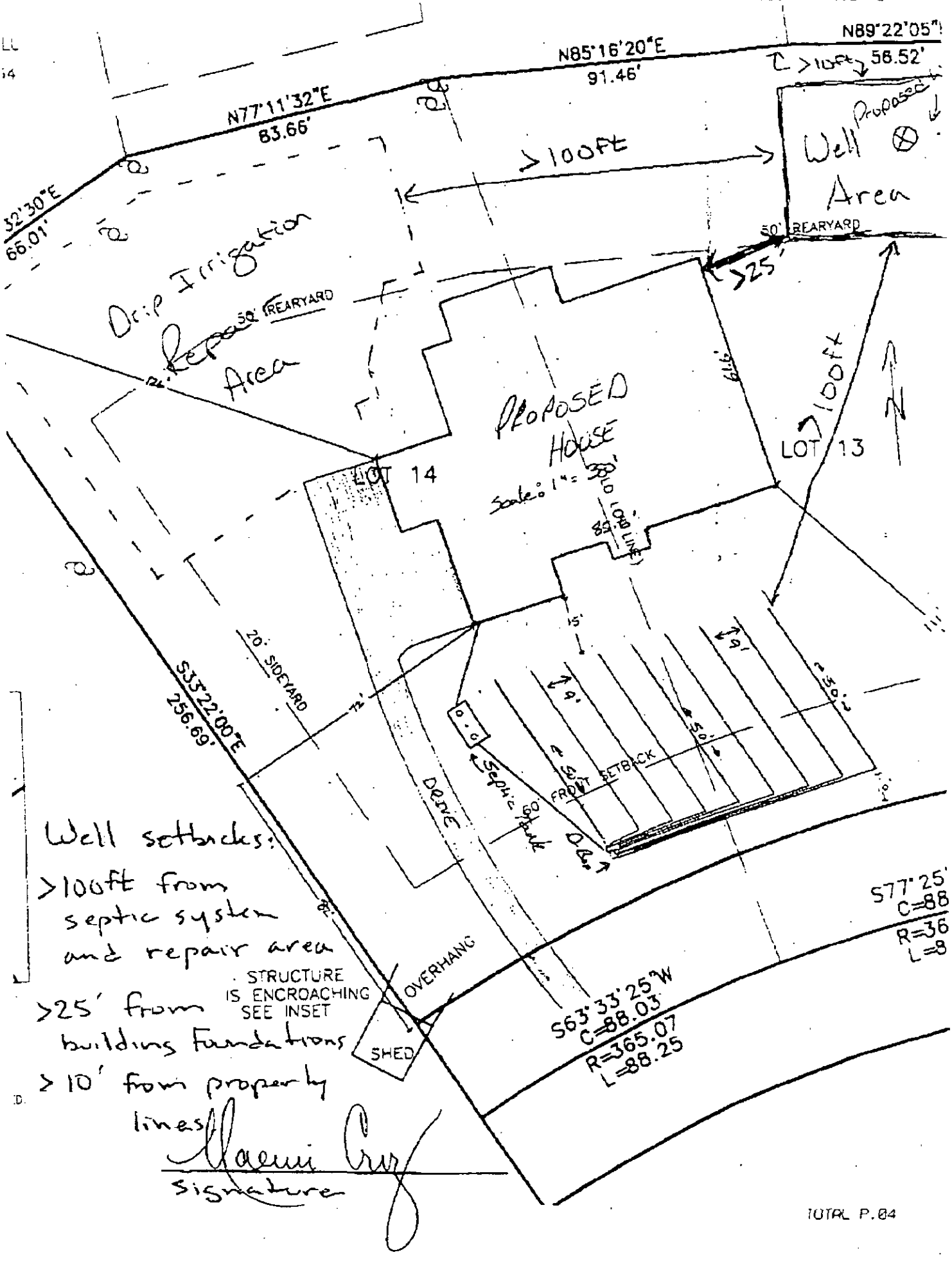
DENR Authorized Agent: David Cornelius

Signature: _____

Date Issued: 7/25/2007

Owner/Legal Agent: Noemi Cruz
Print Name

Signature: _____




Well setbacks:

>100ft from septic system and repair area

>25' from building foundations

> 10' from property lines

Noemi Cruz
signature

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# IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30002272** GWS File #: **4904B** Tax Parcel #: **197-154-01**

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
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| Maximum Trench Depth (in): | 16 | Depth of Media (in): | N/A | Distribution Device: | Distribution Box | | |

**III. Repair System Type:** Drip Irrigation **System Classification:** Va

Repair System Specifications:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
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| Maximum Trench Depth (in): | 6" | Depth of Media (in): | N/A | Distribution Device: | Headworks (Drip Irr. | | |

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DENR Authorized Agent: David Cornelius Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 7/25/2007

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Permit #: **30002272** GWS File #: **4904B**

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- Install according to plans on file submitted by Larry Thompson and The Catena Group,7/3/07.

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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: David Cornelius

Signature: _____

Date Issued: 7/25/2007

Owner/Legal Agent: _____
Print Name

Signature: _____

# SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

**File:** 4904B

**Address:** 11901 Everidge Place

**PID #:** 197-154-01

**Subdivision:** Mint Hill Estates

**Lot #:** 13 & 14

**Comments:**

1. Need additional auger borings or pits in proposed area for initial system. Insufficient documentation on file to verify suitable soils in area.
2. Plan will require minimum 4" of additional soil cover over drain field due to "shallow placement" 16" trench depth.

**Reviewed By:** Trevor Thomason

**Date:** July 3, 2007

**Status:** **Approved** **Disapproved** **X Pending**

GWS Septic System Design Review

GWS File #: 4904B Approved ☐ Disapproved ☐

Design Review: ☐

Field Review: 7/19/07 ☒

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

# Residential Subsurface Wastewater Treatment and Disposal System Design

for

**Lots 13 and 14 – Mint Hill Estates**
**11901 Everidge Place**
**Charlotte, North Carolina**

* APPROVAL PENDING 7-3-07 TCT

Tax Parcel # 197-154-01/02
Mecklenburg County File # 4904B
June 26, 2007

**Prepared for:**

Noemi and Santiago Cruz
P. O. Box 690234
Charlotte, NC 28227
704-573-4279

LICENSED SOIL SCIENTIST
LARRY B. THOMPSON JR.
1287
STATE OF NORTH CAROLINA

**Prepared by:**

Larry Thompson, RS, PWS, LSS
Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748
Phone: 704-301-4881
Fax: 704-888-1496
info@thompsonenv.com

NORTH CAROLINA REGISTERED SEAL 1208 SANITARIAN LARRY B. THOMPSON, JR.

CC: Mr. Jeremy Michael, RS
Mecklenburg County Environmental Health

**Details**

In an application for an Improvement Permit filed with the Mecklenburg County Health Department (MCHD) by Mr. and Mrs. Cruz, the subject property was proposed to be developed with a single family 4-bedroom residence served by a private well. Based upon this information, a soil and site evaluation was conducted by the MCHD where the 1.309 acre lot (combined lots 13 and 14 – Mint Hill Estates) was determined to be "Unsuitable" for the installation of a subsurface wastewater treatment and disposal system in accordance with the *Laws and Rules for Sewage Treatment, and Disposal Systems* 15A NCAC 18A .1900 (North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section).

Since the May 30,2007 investigation, the Cruz's contracted with Thompson Environmental Consulting, Inc. (TEC) to assist in the development of an on-site wastewater treatment and disposal system proposal that might allow for the construction of a 4-bedroom residence. Based upon an investigation performed by TEC it was determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a shallow placed Type III innovative system for a 4-bedroom residence with a drip irrigation repair area.

It is the desire of the owner that the MCHD consider reclassifying this lot as "Provisionally Suitable", allowing for the issuance of a Construction Authorization, based upon the following proposal.

Location

The subject property is located in Mint Hill Estates (Lots 13 and 14) near the town of Mint Hill, North Carolina. From Mint Hill, travel southeast on NC 218, turn left onto Brief Road, right onto Langtree Lane and right onto Everidge Place. Lots 13 and 14 are located on the right at the end of the street.

References

*Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section,* June, 2006.

*Onsite Wastewater Treatment and Disposal Systems;* EPA 625/R-00/008 Design Manual, February 2002.

*Innovative Wastewater System Approval: IWWS-95-3-R3*; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 18, 2002.

*Innovative Wastewater System Approval: IWWS-93-2-R11*; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, December 21, 2006.

## Plans and Specifications

The following proposal is for a shallow placed system and extreme care should be given to the stub out elevation for the household plumbing. As drawn, the plumbing would exit the front left corner of the house (underneath the garage floor which will be a concrete slab). The top of the stub out should be "at grade" or just beneath existing grade where it exits the building foundation in order to eliminate the need for an effluent pump.

If the plumbing cannot be held high enough, it is recommended that the builder consult with the Mecklenburg County Environmental Health Department about the possibility of placing the septic tank on the lower left hand side of the house, adding a pump tank and pumping the effluent up to the drain field area.

Septic Tank

- The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
- The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
- It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

Pipes and Fittings

- All discharge piping, connectors and supply lines should be made of Sch. 40 PVC.
- All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

Distribution Method

- Wastewater from the septic tank will be directed to a distribution box for equal distribution to the (9) nine drain lines.
- The distribution box shall be level, watertight, and the flow adjusted (equalized) at the time of the final inspection.

Drain Field Installation

- The drain field has been previously laid out on-site utilizing metal stemmed flags. Once this area has been approved by the MCHD, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the MCHD and the system designer for a preconstruction conference at which time the drain field area will be re-verified.
- Under no circumstances shall any construction take place within the drain field area while the soil is in a wet condition. If the installer has doubts as to whether or not the

drain field area is dry enough to begin construction, the MCHD should be contacted for permission to proceed with the installation.

- The specified system is a shallow placed Type III Innovative system; the **EZ*flow* 1203H** or the **Infiltrator Chamber System** may be used (other innovative systems may be substituted with prior approval by the MCHD).
- The drain field consists of (9) lateral trenches to be constructed 3 foot wide by 50 feet in length.
- The maximum trench depth for this system shall be 16 inches.
- The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
- The trenches should be left open for the final inspection by the MCHD.

Final Landscaping

- Finished soil cover must be at least 6 inches deep over the entire drain field area.
- The drain field shall be shaped to shed rainwater and be free from low spots.
- The drain field area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

Utility Conflicts

- The builder and property owner must take special care in planning for water, power, gas, telephone and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage. If there are any questions regarding preferred routes, contact the MCHD as soon as possible.
- Lawn irrigation should not be placed over the drain field area.

## Maintenance

In General

- The septic and pump tanks shall be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 1/3 of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
- When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
- All piping and valves should be inspected annually for damage and corrections/repairs made immediately.
- The drain field area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.

- Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Suggestions to the Homeowner

- As previously mentioned, if you plan to use a garbage disposal in your home you should plan to have your septic and pump tanks cleaned out annually. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
- Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
- Used motor oil or any oily liquids should not be disposed of in a septic tank.
- Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
- Run dishwashers and washing machines only when you have a full load.
- Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
- Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
- Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

**Design Specifics**

| | |
|---|---|
| Daily Design Flow: | 480 GPD – 4 bedroom house |
| Septic Tank Size: | 1500 gallons (2 compartments) |
| Effluent Loading Rate: | Design = 0.267 GPD per sq. ft. |
| Drain Field Type: | EZFlow 1203H or Infiltrator Chamber System |
| Distribution Method: | Gravity – Distribution Box |
| Drain Lines: | (9) 3' W x 50' L x 16" D |

WAYNE A. POWELL
MB:213 PG:934

N85°16'20"E
91.46'

N89°22'05"E
56.52'

Proposed Well

N77°11'32"E
83.66'

N56°32'30"E
66.01'

Drip Irrigation Repair Area

50' REARYARD

126'

50' REARYARD

PROPOSED HOUSE

Scale: 1" = 30'

LOT 14

LOT 13

69.79'

OLD LOT LINE

85.18'

20' SIDEYARD

S05°40'10"E
220.15'

LOT 12
MB:10 PG:75

THE PURPOSE OF THIS PLAT IS TO COMBINE LOTS 13 & 14, AS SHOWN ON PLAT, TO BECOME 1 LOT. THIS PLAT SUPCEDES THE PREVIOUS PLAT RECORDED AT MB:10 PG:75.

MICHAEL J.
TT
PG:757

20' SIDEYARD

S33°22'00"E
256.69'

72'

15'

9'

9'

50'

50'

FRONT SETBACK

70'

Septic Tank

60'

DRIVE

62'

96'

OVERHANG

1.55'

ED

STRUCTURE IS ENCROACHING SEE INSET

OVERHANG

SHED

S77°25'08"W
C=88.18
R=365.07
L=88.40

S63°33'25"W
C=88.03
R=365.07
L=88.25

EVERIDGE PLACE
(60' PUBLIC R/W)
(PER POLARIS)
~UNPAVED~

SS RWISE NOTED.

5402.

IB:10 PG:75

On-site Wastewater Section

Property ID: 197-154-01, 02
Lot #: 13, 14
File #: 4904B
AppID: 2272

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Santiago & Noemi Cruz
Address: 11910 Everidge Place, Charlotte, N. C. 28227
Proposed Facility: Residence — Design Flow (.1949): 480gpd
Location of Site: Everidge Place
Water Supply: [ ] Public [ x ] Individual
Evaluation Method: [ ] Auger Boring [ x ] Well [ ] Spring [ ] Other
Type of Wastewater: [ x ] Sewage [ x ] Pit [ ] Cut
[ ] Industrial Process [ ] Mixed

Applicant:
Date Evaluated: 5/6/02
Property Size: 1.18a
Property Recorded:

| PROFILE # | 1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 | | PROFILE FACTORS .5i | | | | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1941 Structure/ Texture | 1941 Consistance Mineralogy | 1942 Soil Wetness/ Color | 1943 Soil Depth (IN.) | 1956 Sapro Class | 1944 Restr Horiz | |
| 1 | LS, 8 | 0-6 | GR/SIL | FR/SEXP/NS/NP | >12" TO SOIL WETNESS | 12 | N/A | NONE | US, III |
| | | 6-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 2 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >13" TO SOIL WETNESS | 13 | " | " | " |
| | | 3-13 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 3 | " | 0-7 | GR/SIL | FR/SEXP/NS/NP | >19" TO SOIL WETNESS | 19 | " | " | " |
| | | 7-19 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 4 | " | 0-5 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | " | US, IV .125GPD/FT$^2$ |
| | | 5-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-20 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 5 | " | 0-6 | GR/SIL | FR/SEXP/NS/NP | >26" TO SOIL WETNESS | 26 | " | " | " |
| | | 6-11 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 11-26 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 6 | " | 0-4 | GR/SIL | FR/SEXP/NS/NP | >37" TO SOIL WETNESS | 37 | " | " | PS, IV .3GPD/FT$^2$ |
| | | 4-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-37 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 7 | " | 0-10 | GR/SIL | FR/SEXP/NS/NP | >28" TO SOIL WETNESS | 28 | " | " | US, IV .27GPD/FT$^2$ |
| | | 10-15 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 15-28 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 8 | " | 0-6 | GR/SICL | FR/SEXP/SS/SP | >30" TO SOIL WETNESS | 30 | " | " | " |
| | | 6-30 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

Other Factors (.1946):

Soil Evaluation By: W. R. Marlin, LSS, 5/30/07

Others Present: D. Walker

Site Classification (.1948):

Site Evaluation By:

Others Present:

FILE #:

COMMENTS:

100% repair, existing site investigation report from 2002 used

| Landscape Position | Group | Texture | .1955 LTAR |
|---|---|---|---|
| R-Ridge | I | S-Sand | 1.2 - 0.8 |
| SS-Shoulder Slope | | LS-Loamy Sand | |
| LS-Linear Slope | | | |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 |
| NS-Nose Slope | | L-Loam | |
| HS-Head Slope | | | |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 |
| CV-Convex Slope | | SICL-Silty Clay Loam | |
| T-Terrace | | CL-Clay Loam | |
| FP-Flood Plain | | SCL-Sandy Clay Loam | |
| | IV | SC-Sandy Clay | 0.4 - 0.1 |
| | | SIC-Silty Clay | |
| | | C-Clay | |

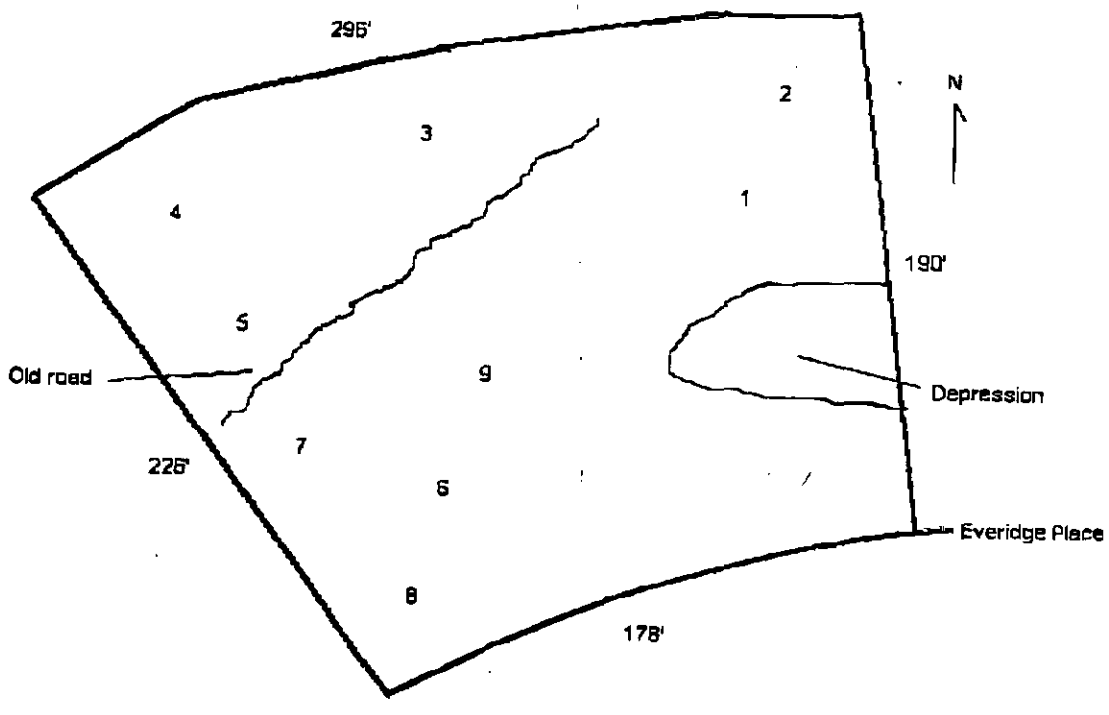
**Structure**
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

**Consistence Moist**
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

**Consistence Wet**
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

**Mineralogy**
SEXP-Slightly Expansive
EXP-Expansive

**Sketch of Soil Evaluation Locations**

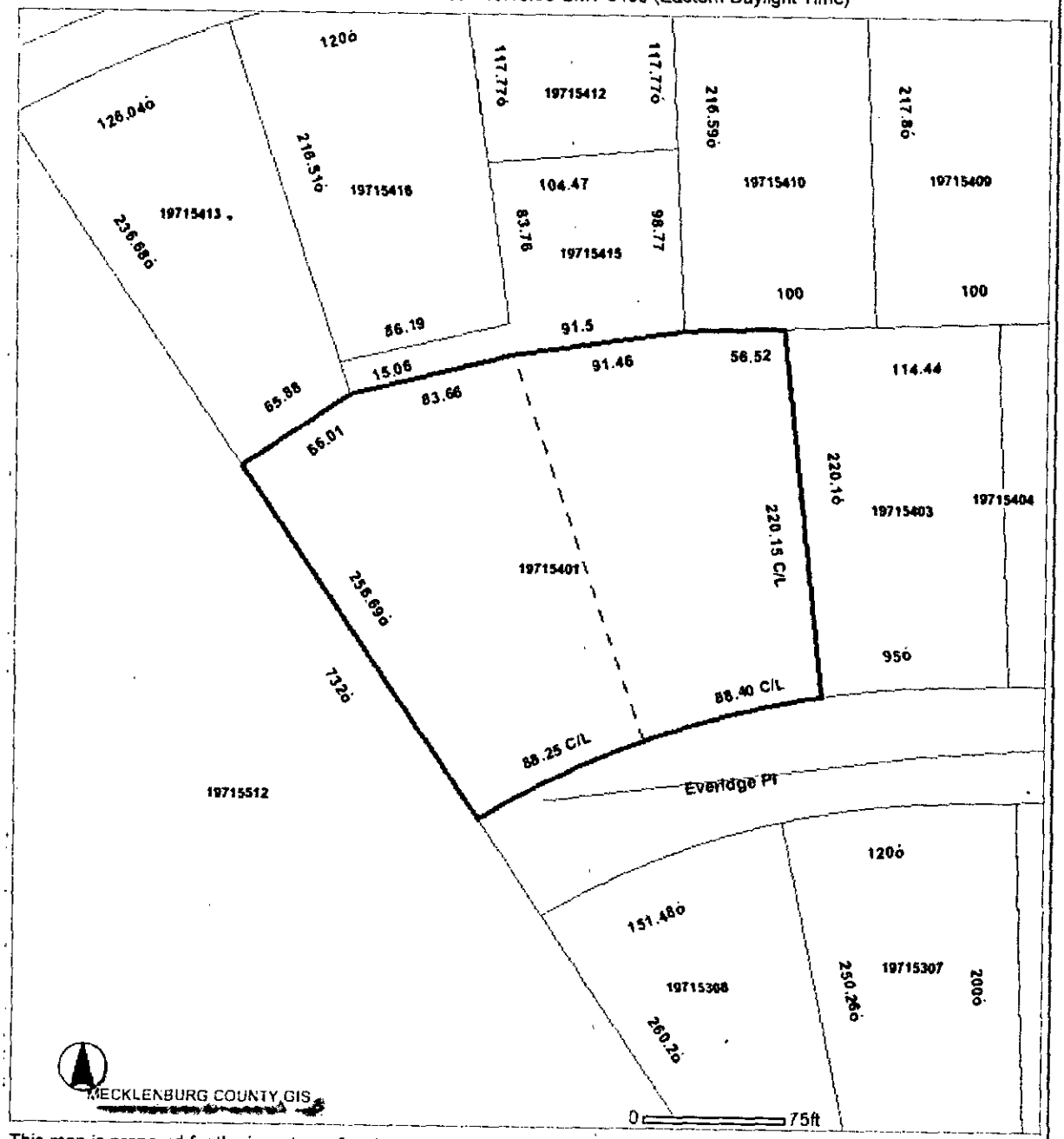


***Mecklenburg County, North Carolina***

# *POLARIS*

***Property Ownership Land Records Information System***

Date Printed: Sun Jun 24 2007 16:15:56 GMT-0400 (Eastern Daylight Time)




This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

| Mecklenburg County, NC<br>POLARIS<br>Parcel Ownership and GIS Summary<br>*Date and Time: 6/24/2007 4:16:27 PM* | |
|---|---|
| **Parcel ID #: 19715401 GIS ID #: 19715401** | |
| Owner Name: | NOEMI CRUZ AND SANTIAGO CURZ |
| Mailing Address: | PO BOX 690234<br>CHARLOTTE, NC 28227 |
| **Property Characteristics** | |
| Legal Desc.: | L14 BB M10-75 |
| Land Area: | 0.63 AC |
| Fire District: | 10-MINT HILL |
| Special District: | FIRE SERVICE F |
| Account Type: | INDIVIDUAL |
| Municipality: | 0-MECKLENBURG<br>COUNTY-UNINCORPORATED |
| Property Use: | VACANT |
| **Deed Reference(s) and Sales Price** | |
| 13787-243 (7/9/2002) $0.00<br>02735-127 (1/1/1975) $0.00 | |
| **Situs Addresses Tied to This Parcel** | |
| 11901 EVERIDGE PL | |
| **Site Location Information** | |
| Zoning Boundaries: | Contact Appropriate Planning Department |
| **ETJ Area:** MINT HILL | |
| **Charlotte Historic Districts:** NO | |
| **Within Charlotte 6/30/2007 Annexation Area:** NO | |
| **Census Tract #:** 57.07 | |
| **Parcel Falls Inside SWIM Buffer?:** NO | |
| **FEMA Flood Information** | |
| FEMA Panel #: | 3701580213E |
| FEMA Flood Zone: | OUT |
| FEMA Panel Date: | 02/04/2004 |
| **Community Flood Information** | |
| Community Flood Zone: | OUT |
| **Regulated Watershed Information** | |
| Watershed Name: | CLEAR |
| Watershed Class: | |

The information provided by this program is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys and other public records and data. Users of this map data are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 197-154-01, 02
Lot #: 13, 14
File #: 4904B
AppID: 2272

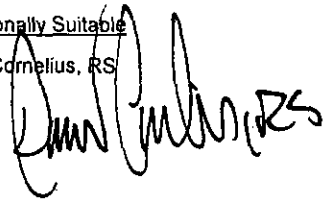
# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Santiago & Noemi Cruz
Applicant:
Address: 11910 Everidge Place, Charlotte, N. C. 28227
Date Evaluated: 5/6/02
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: 1.18a
Location of Site: Everidge Place
Property Recorded:
Water Supply: [ ] Public [ x ] Individual [ x ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ x ] Pit [ ] Cut
Type of Wastewater: [ x ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | b PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 8 | 0-6 | GR/SIL | FR/SEXP/NS/NP | >12" TO SOIL WETNESS | 12 | N/A | NONE | US, III |
| | | 6-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 2 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >13" TO SOIL WETNESS | 13 | " | " | " |
| | | 3-13 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 3 | " | 0-7 | GR/SIL | FR/SEXP/NS/NP | >19" TO SOIL WETNESS | 19 | " | " | " |
| | | 7-19 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 4 | " | 0-5 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | " | US, IV .125GPD/FT$^2$ |
| | | 5-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-20 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 5 | " | 0-6 | GR/SIL | FR/SEXP/NS/NP | >26" TO SOIL WETNESS | 26 | " | " | " |
| | | 6-11 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 11-26 | SBK/SIC | FI/SEXP/S/P | | | | | |
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| | | 4-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-37 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 7 | " | 0-10 | GR/SIL | FR/SEXP/NS/NP | >28" TO SOIL WETNESS | 28 | " | " | US, IV .27GPD/FT$^2$ |
| | | 10-15 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 15-28 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 8 | " | 0-6 | GR/SICL | FR/SEXP/SS/SP | >30" TO SOIL WETNESS | 30 | " | " | " |
| | | 6-30 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | III | V |
| Site LTAR | 0.267 | 0.267 |

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 5/30/07
Others Present: D. Walker
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: David Cornelius, RS
Others Present:



Sheet:

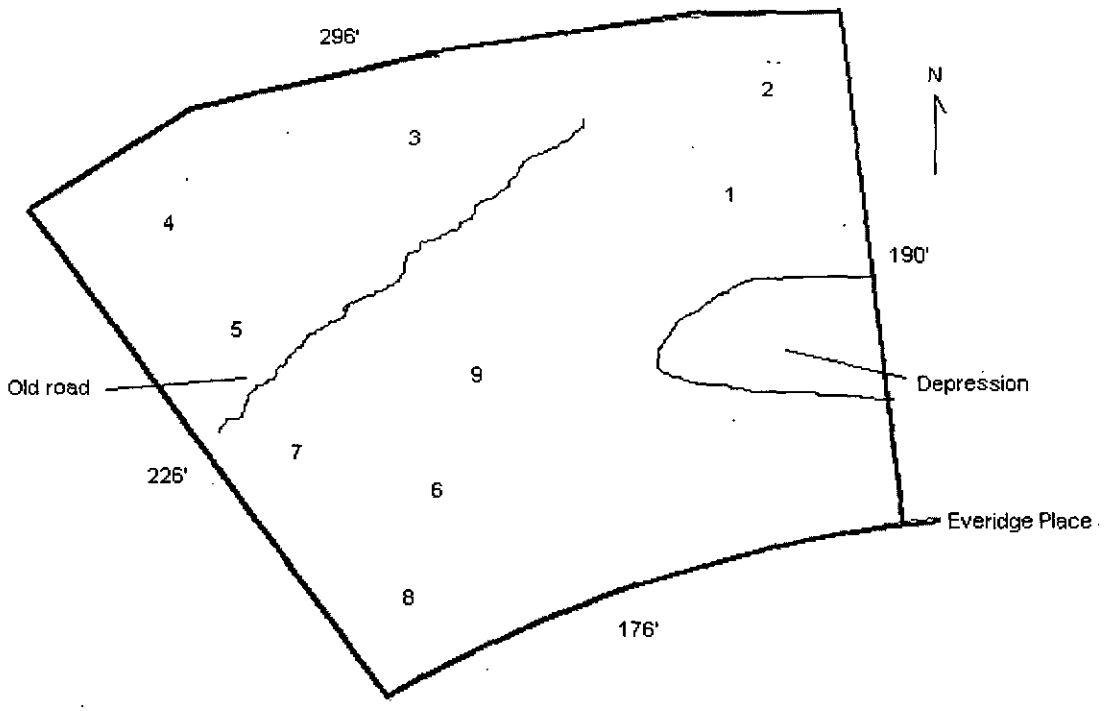
**COMMENTS:** FILE #:

100% repair, existing site investigation report from 2002 used

| Landscape Position | Group | Texture | .1955 LTAR | Structure |
|---|---|---|---|---|
| R-Ridge | I | S-Sand | 1.2 - 0.8 | SG-Single Grain |
| SS-Shoulder Slope | | LS-Loamy Sand | | M-Massive |
| LS-Linear Slope | | | | CR-Crumb |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 | GR-Granular |
| NS-Nose Slope | | L-Loam | | SBK-Subangular Blocky |
| HS-Head Slope | | | | ABK-Angular Blocky |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 | PL-Platy |
| CV-Convex Slope | | SICL-Silty Clay Loam | | PR-Prismatic |
| T-Terrace | | | | |
| FP-Flood Plain | | CL-Clay Loam | | |
| | | SCL-Sandy Clay Loam | | |
| | IV | SC-Sandy Clay | 0.4 - 0.1 | |
| | | SIC-Silty Clay | | |
| | | C-Clay | | |

| Consistence Moist | Consistence Wet | Mineralogy |
|---|---|---|
| VFR-Very Friable | NS-Non-Sticky | SEXP-Slightly Expansive |
| FR-Friable | SS-Slightly Sticky | EXP-Expansive |
| FI-Firm | S-Sticky | |
| VFI-Very Firm | VS-Very Sticky | |
| EFI-Extremely Firm | NP-Non-Plastic | |
| | SP-Slightly Plastic | |
| | P-Plastic | |
| | VP-Very Plastic | |

**Sketch of Soil Evaluation Locations**



FILE NUMBER: 4904B

SEPTIC FEE: 500.00
DATE: 5/8/07
Ck# 7922 JKA

Revised On: January 3, 2007

APPLICATION NUMBER: 2272

# MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES
## APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

WELL FEE: 400.00
DATE: 5/9/07
Ck# 7922 JKA

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☐ NONE ☑ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 197-154-01
STREET ADDRESS: 11905 Everidge PL
CITY: Charlotte
STATE: NC ZIP: 28227
SUBDIVISION NAME: –
LOT #: 13-14 LOT SIZE (acres):
TOWNSHIP:

☑ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. BUILDING INFORMATION:

BUILDING TYPE:

☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☑ HOUSE ☐ OTHER _____

HEATED SQUARE FOOTAGE: 5,461
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4

FOUNDATION TYPE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☐ MUNICIPAL ☐ PUBLIC WELL ☑ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

7. PROPOSED USE OF WELL: ☐ N/A ☑ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☑ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

| | | | | | |
|---|---|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ☐ YES ☑ NO | GRADING/SOIL REMOVAL PERFORMED | ☐ YES ☑ NO |
| EXISTING WASTEWATER SYSTEMS | ☐ YES ☑ NO | JURISDICTIONAL WETLANDS | ☐ YES ☑ NO |
| WELLS, SPRINGS, OR WATER LINES | ☐ YES ☑ NO | APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY | ☐ YES ☑ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ☐ YES ☑ NO | WASTEWATER OTHER THAN DOMESTIC SEWAGE | ☐ YES ☑ NO |

10. PROPERTY OWNER:

NAME: Santiago & Noemi Cruz
ADDRESS: 11910 Everidge PL
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: 704 573-4279 WORK PHONE: 704 545-8885
MOBILE PHONE: 704 545-8886 FAX: Cell: 704 202-4846
Fax

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

Santiago Cruz 5/9/07
Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of 12 months from the date of issuance.

Santiago Cruz 5/9/07
Property Owner's or Owner's Legal Representative Signature Date

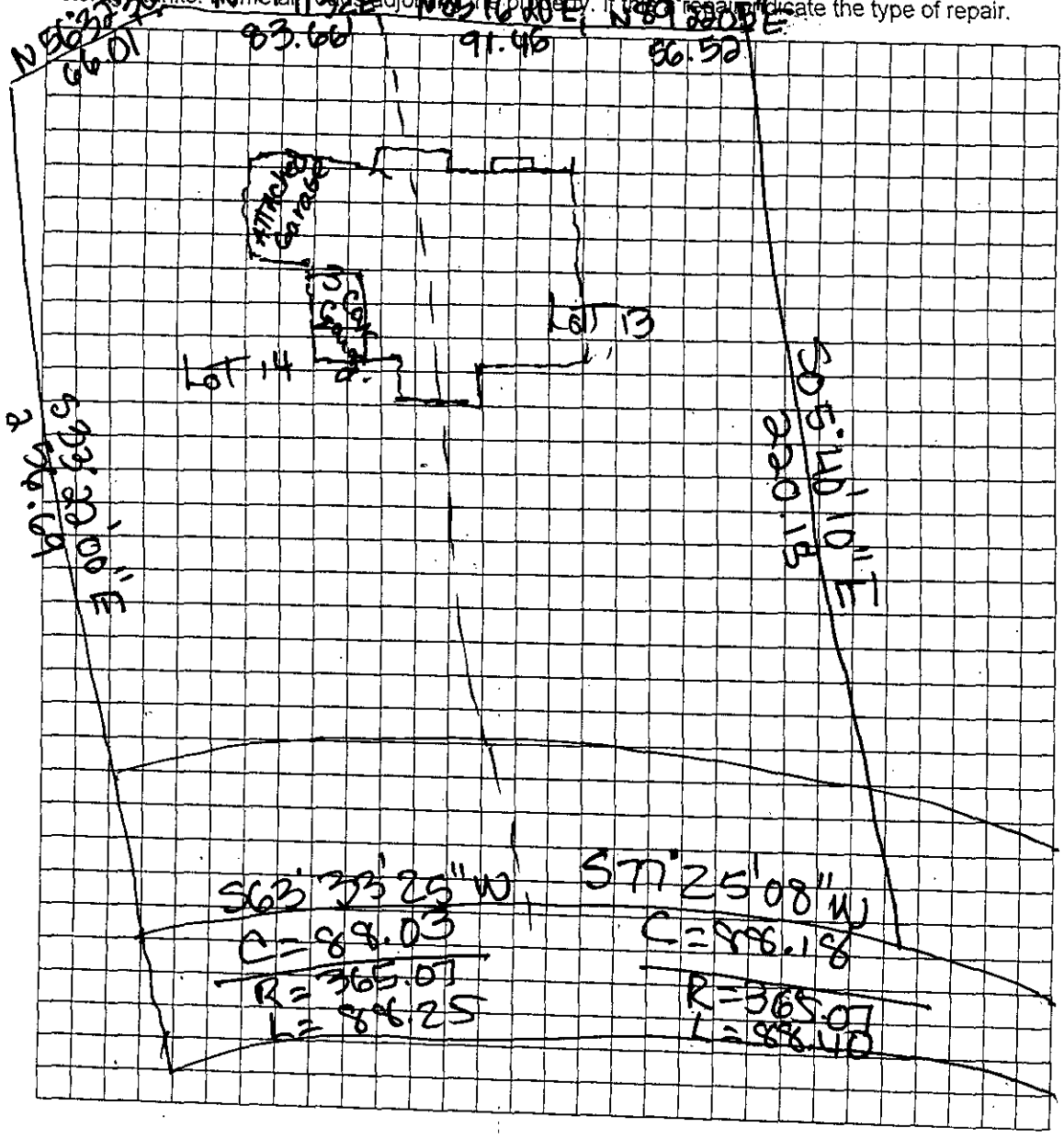
☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

Mecklenburg County
Land Use & Environmental Service Agency
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

File # 49043
Date 5/9/07

# PROPOSED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property. If this is a repair, indicate the type of repair.




Owner/Agent Signature Santiago Luna
Date 5/9/07

LBC 12/15/04

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 3
Property ID: 197-154-01, 02
Lot #: 13, 14
File #: 4904B
AppID: 2272

# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Santiago & Noemi Cruz
Applicant:
Address: 11910 Everidge Place, Charlotte, N. C. 28227
Date Evaluated: 5/6/02
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: 1.18a
Location of Site: Everidge Place
Property Recorded:
Water Supply: [ ] Public [ x ] Individual [ x ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ x ] Pit [ ] Cut
Type of Wastewater: [ x ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | b PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 8 | 0-6 | GR/SIL | FR/SEXP/NS/NP | >12" TO SOIL WETNESS | 12 | N/A | NONE | US, III |
| | | 6-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 2 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >13" TO SOIL WETNESS | 13 | " | " | " |
| | | 3-13 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 3 | " | 0-7 | GR/SIL | FR/SEXP/NS/NP | >19" TO SOIL WETNESS | 19 | " | " | " |
| | | 7-19 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 4 | " | 0-5 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | " | US, IV .125GPD/FT$^2$ |
| | | 5-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-20 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 5 | " | 0-6 | GR/SIL | FR/SEXP/NS/NP | >26" TO SOIL WETNESS | 26 | " | " | " |
| | | 6-11 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 11-26 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 6 | " | 0-4 | GR/SIL | FR/SEXP/NS/NP | >37" TO SOIL WETNESS | 37 | " | " | PS, IV .3GPD/FT$^2$ |
| | | 4-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-37 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 7 | " | 0-10 | GR/SIL | FR/SEXP/NS/NP | >28" TO SOIL WETNESS | 28 | " | " | US, IV .27GPD/FT$^2$ |
| | | 10-15 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 15-28 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 8 | " | 0-6 | GR/SICL | FR/SEXP/SS/SP | >30" TO SOIL WETNESS | 30 | " | " | " |
| | | 6-30 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 5/30/07. W. R. Marlin
Others Present: D. Walker
Site Classification (.1948):
Site Evaluation By:
Others Present:

Sheet:
FILE #:

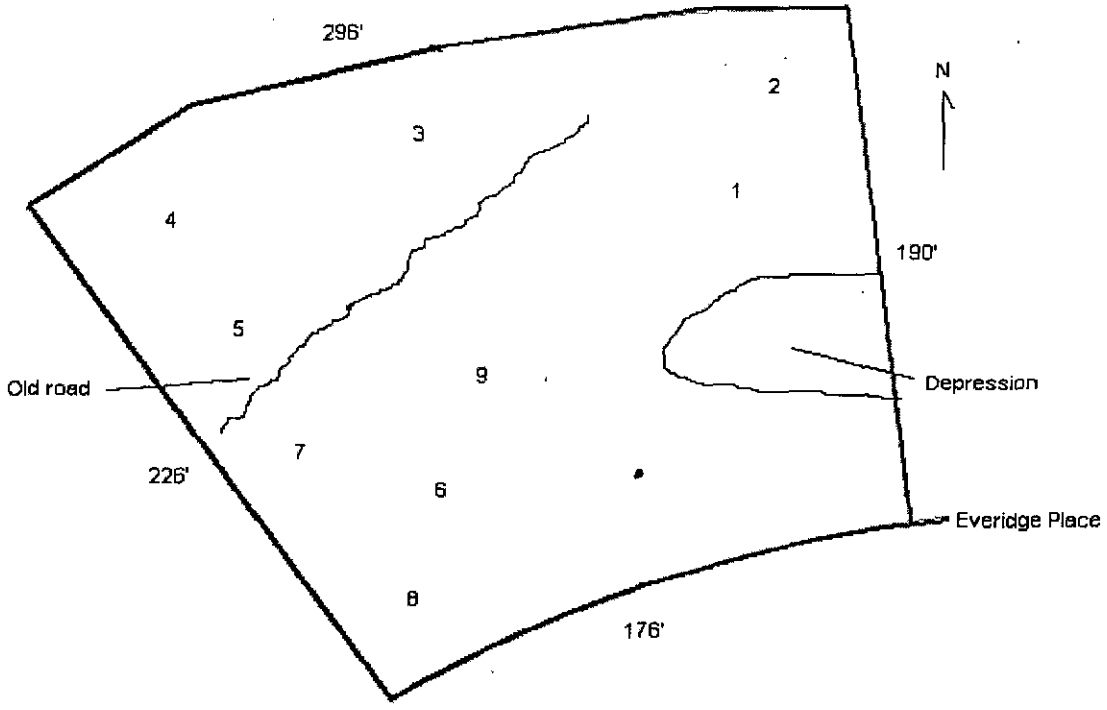
**COMMENTS:**

100% repair, existing site investigation report from 2002 used

| Landscape Position | Group | Texture | .1955 LTAR | Structure |
|---|---|---|---|---|
| R-Ridge | I | S-Sand | 1.2 - 0.8 | SG-Single Grain |
| SS-Shoulder Slope | | LS-Loamy Sand | | M-Massive |
| LS-Linear Slope | | | | CR-Crumb |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 | GR-Granular |
| NS-Nose Slope | | L-Loam | | SBK-Subangular Blocky |
| HS-Head Slope | | | | ABK-Angular Blocky |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 | PL-Platy |
| CV-Convex Slope | | SICL-Silty Clay Loam | | PR-Prismatic |
| T-Terrace | | | | |
| FP-Flood Plain | | CL-Clay Loam | | |
| | | SCL-Sandy Clay Loam | | |
| | IV | SC-Sandy Clay | 0.4 - 0.1 | |
| | | SIC-Silty Clay | | |
| | | C-Clay | | |

| Consistence Moist | Consistence Wet | Mineralogy |
|---|---|---|
| VFR-Very Friable | NS-Non-Sticky | SEXP-Slightly Expansive |
| FR-Friable | SS-Slightly Sticky | EXP-Expansive |
| FI-Firm | S-Sticky | |
| VFI-Very Firm | VS-Very Sticky | |
| EFI-Extremely Firm | NP-Non-Plastic | |
| | SP-Slightly Plastic | |
| | P-Plastic | |
| | VP-Very Plastic | |

**Sketch of Soil Evaluation Locations**



Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 3 of 3
File #: 4904B

# SOIL/SITE EVALUATION
# for ON-SITE WASTEWATER SYSTEM
# CONTINUED

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 9 | LS, 8 | 0-4 | GR/SIL | FR/SEXP/NS/NP | >24" TO SOIL WETNESS | 24 | N/A | NONE | US, IV |
| | | 4-8 | SBK/SICL | FR/SEXP/SS/SP | | | | | .135GPD/FT$^2$ |
| | | 8-24 | SBK/SIC | FI/SEXP/S/P | | | | | |
| | | | | | SITE LTAR .275GPD/FT$^2$ | | | | |

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1
Property ID: 197-154-01, 02
Lot #: 13, 14
File #: 4904B
Code: 2

A-C
Ord. date

## SOIL/SITE EVALUATION
## for ON-SITE WASTEWATER SYSTEM

Owner: Thomas and Pattie Black
Applicant: S. & N. Cruz
Address: PO Box 1365, Pinehurst, N. C. 28374
Date Evaluated: 05/06/2002
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: 1.16a
Location of Site: Everidge Place
Property Recorded:
Water Supply: [ ] Public [ x ] Individual [ x ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ x ] Pit [ ] Cut
Type of Wastewater: [ x ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 8 | 0-6 | GR/SIL | FR/SEXP/NS/NP | >12" TO SOIL WETNESS | 12 | N/A | NONE | US, III |
| | | 6-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 2 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >13" TO SOIL WETNESS | 13 | " | " | " |
| | | 3-13 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 3 | " | 0-7 | GR/SIL | FR/SEXP/NS/NP | >19" TO SOIL WETNESS | 19 | " | | " |
| | | 7-19 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 4 | " | 0-5 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | | US, IV .125GPD/FT$^2$ |
| | | 5-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-20 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 5 | " | 0-6 | GR/SIL | FR/SEXP/NS/NP | >26" TO SOIL WETNESS | 26 | " | " | " |
| | | 6-11 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 11-26 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 6 | " | 0-4 | GR/SIL | FR/SEXP/NS/NP | >37" TO SOIL WETNESS | 37 | " | " | PS, IV .3GPD/FT |
| | | 4-12 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 12-37 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 7 | " | 0-10 | GR/SIL | FR/SEXP/NS/NP | >28" TO SOIL WETNESS | 28 | " | " | US, IV .27GPD/FT$^2$ |
| | | 10-15 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 15-28 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 8 | " | 0-6 | GR/SICL | FR/SEXP/SS/SP | >30" TO SOIL WETNESS | | | | US, IV .27GPD/FT$^2$ |
| | | 6-30 | SBK/SIC | FI/SEXP/S/P | | | | | |
| | | | | | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | US | US |
| System Type(s) | | |
| Site LTAR | .3GPD/FT$^2$ | .27GPD/FT$^2$ |

Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 5/7/02. W. R. Marlin
Others Present: D. Walker

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 2
Property ID: 197-154-01.02
Lot #: 13, 14
File #: 4904B
Code: 2

# SOIL/SITE EVALUATION
# for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:
Address: Date Evaluated:
Proposed Facility: Design Flow (.1949): Property Size:
Location of Site: Property Recorded:
Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 9 | LS, 8 | 0-4 | GR/SIL | FR/SEXP/NS/NP | >24" TO SOIL WETNESS | 24 | N/A | NONE | US, IV .135GPD/FT |
| | | 4-8 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 8-24 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

Other Factors (.1946): _____
Site Classification (.1948):
Evaluated By: WRM, LSS, 5/7/02
Others Present:

FILE # 47048

COMMENTS 1007b Repairs

| LANDSCAPE POSITION | GROUP | TEXTURE | .1955 LTAR |
|---|---|---|---|
| R-RIDGE | I | S-SAND | 1.2-0.8 |
| S-SHOULDER SLOPE | | LS-LOAMY SAND | |
| L-LINEAR SLOPE | | | |
| FS-FOOT SLOPE | II | SL-SANDY LOAM | 0.8-0.6 |
| N-NOSE SLOPE | | L-LOAM | |
| H-HEAD SLOPE | | | |
| CC-CONCLAVE SLOPE | III | SI-SILT | 0.6-0.3 |
| CV-CONVEX SLOPE | | SICL-SILTY CLAY LOAM | |
| T-TERRACE | | CL-CLAY LOAM | |
| FP-FLOOD PLAIN | | SCL-SANDY CLAY LOAM | |
| | IV | SC-SANDY CLAY | 0.4-0.1 |
| | | SIC-SILTY CLAY | |
| | | O-ORGANIC | |

| CONSISTENCE | |
|---|---|
| MOIST | WET |
| VFR-VERY FRIABLE | NS-NON-STICKY |
| FR-FRIABLE | SS-SLIGHTLYSTICKY |
| FI-FIRM | S-STICKY |
| VFI-VERY FIRM | VS-VERY STICKY |
| EFI-EXTREMELY FIRM | NP-NON-PLASTIC |
| | SP-SLIGHTLYSTICKY |
| | P-PLASTIC |
| | VP-VERY PLASTIC |

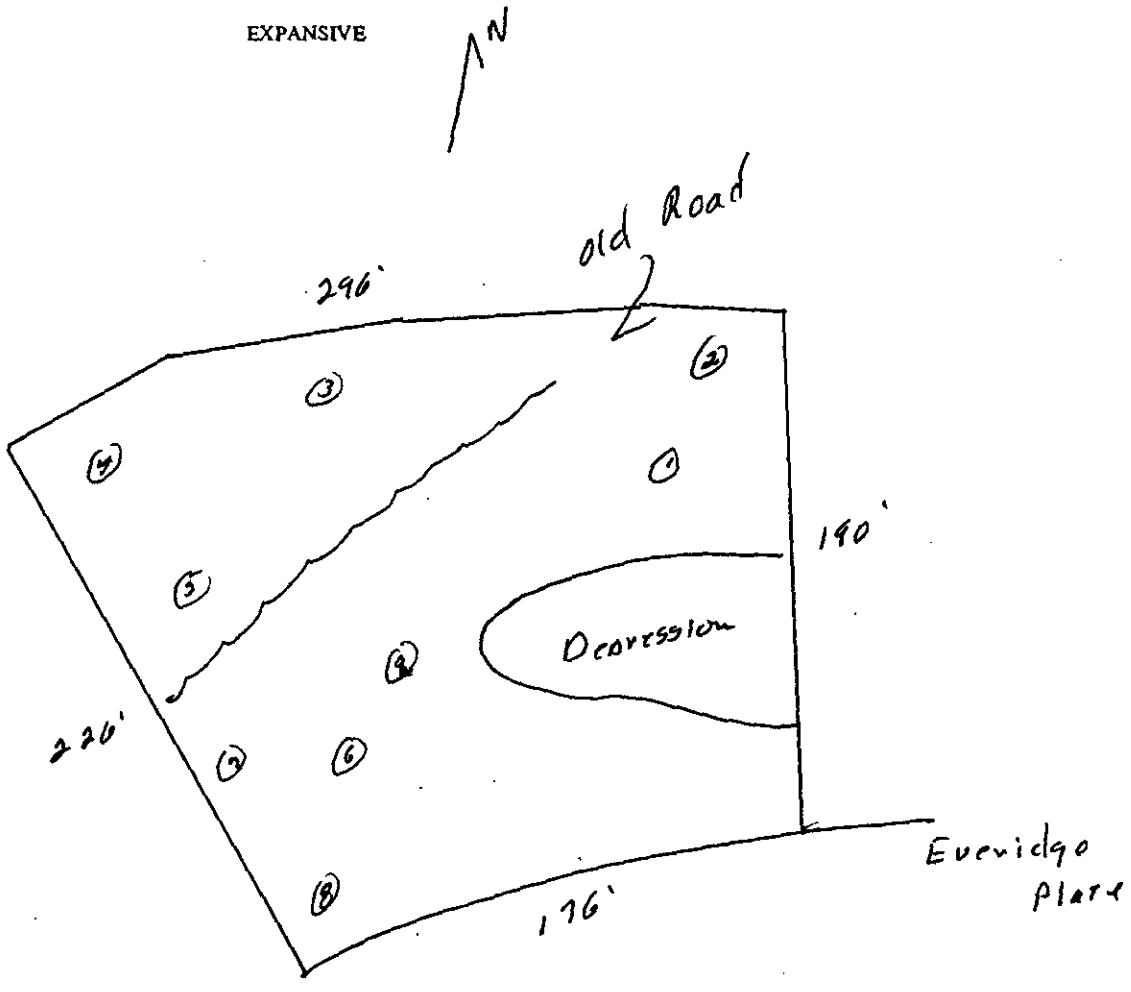
STRUCTURE

SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE



Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1
Property ID: 197-154-01, 02
Lot #: 13, 14
File #: 4904B
Code: 2

A(1)

# SOIL/SITE EVALUATION
## for ON-SITE WASTEWATER SYSTEM

Owner: Thomas & Pattie Black
Applicant: Santiago Cruz
Address: P. O. Box 1365, Pinehurst, N. C. 28373
Date Evaluated: 04/15/2002
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: 1.16a
Location of Site: Everidge Place
Property Recorded:
Water Supply: [ ] Public [ x ] Individual [ x ] Well [ ] Spring [ ] Other
Evaluation Method: [ x ] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [ x ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth ( IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | LS, 10 | 0-3 | GR/SIL | FR/SEXP/NS/NP | >24' TO SOIL WETNESS | 24 | N/A | NONE | US, IV |
| | | 3-8 | SBK/SICL | FR/SEXP/SS/SP | | | | | .12G/D/FT$^2$, LPP |
| | | 8-24 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 2 | " | 0-5 | GR/SIL | FR/SEXP/NS/NP | 2.5Y7/1@14" | 16 | " | " | US, IV |
| | | 5-16 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 3 | " | 0-4 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | " | " |
| | | 4-17 | WKSBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 17-20 | SBK/SIC | VFI/MIXED/VS/VP | | | | | |
| 4 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >20" TO SOIL WETNESS | 20 | " | " | " |
| | | 3-7 | GR/SICL | FR/SEXP/SS/SP | | | | | |
| | | 7-17 | SBK/SIC | FI/SEXP/S/P | | | | | |
| | | 17-20 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| 5 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >15" TO SOIL WETNESS | 15 | " | " | " |
| | | 3-15 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 15+ | M/SICL | FR/SEXP/SS/SP | | | | | |
| 6 | " | 0-3 | GR/SIL | FR/SEXP/NS/NP | >34' TO SOIL WETNESS | 34 | " | " | US, IV |
| | | 3-9 | SBK/SICL | FR/SEXP/SS/SP | | | | | .25G/D/FT$^2$ |
| | | 9-34 | SBK/SIC | FI/SEXP/S/P | | | | | |
| 7 | " | 0-4 | GR/SIL | FR/SEXP/NS/NP | >30' TO SOIL WETNESS | 30 | " | " | " |
| | | 4-9 | SBK/SICL | FR/SEXP/SS/SP | | | | | |
| | | 9-30 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | US | US |
| System Type(s) | | |
| Site LTAR | .25G/D/FT$^2$ | .25G/D/FT$^2$ |

Other Factors (.1946): _____
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 4/16/02. W. R. Marlin
Others Present:

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 2
Property ID: 197-154-01.02
Lot #: 13, 14
File #: 4904B
Code: 2

# SOIL/SITE EVALUATION
# for ON-SITE WASTEWATER SYSTEM

Owner: Applicant:

Address: Date Evaluated: 04/15/2002

Proposed Facility: Design Flow (.1949): Property Size:

Location of Site: Property Recorded:

Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [ ] Other

Evaluation Method: [ ] Auger Boring [ ] Pit [ ] Cut

Type of Wastewater: [ ] Sewage [ ] Industrial Process [ ] Mixed

| PROFILE # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 .1941 Structure/ Texture | SOIL MORPHOLOGY .1941 .1941 Consistence Mineralogy | OTHER PROFILE FACTORS .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | Profile Class & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 8 | LS, 10 | 0-3 | GR/SIL | FR/SEXP/NS/NP | >15" TO SOIL WETNESS | 15 | N/A | NONE | US, IV |
| | | 3-15 | SBK/SIC | FI/SEXP/S/P | | | | | |

| Description | Initial System | Repair System |
|---|---|---|
| Available Space (.1945) | | |
| System Type(s) | | |
| Site LTAR | | |

Other Factors (.1946): _____

Site Classification (.1948):

Evaluated By: WRM, LSS, 4/16/02.

Others Present:

FILE # 49043

COMMENTS 100% Repair, recommend backhoe pits be evaluated in proposed system area before permit is issued dtd 4/4

| LANDSCAPE POSITION | GROUP | TEXTURE | .1955 LTAR |
|---|---|---|---|
| R-RIDGE | I | S-SAND | 1.2-0.8 |
| S-SHOULDER SLOPE | | LS-LOAMY SAND | |
| L-LINEAR SLOPE | | | |
| FS-FOOT SLOPE | II | SL-SANDY LOAM | 0.8-0.6 |
| N-NOSE SLOPE | | L-LOAM | |
| H-HEAD SLOPE | | | |
| CC-CONCLAVE SLOPE | III | SI-SILT | 0.6-0.3 |
| CV-CONVEX SLOPE | | SICL-SILTY CLAY LOAM | |
| T-TERRACE | | CL-CLAY LOAM | |
| FP-FLOOD PLAIN | | SCL-SANDY CLAY LOAM | |
| | IV | SC-SANDY CLAY | 0.4-0.1 |
| | | SIC-SILTY CLAY | |
| | | O-ORGANIC | |

| CONSISTENCE MOIST | CONSISTENCE WET |
|---|---|
| VFR-VERY FRIABLE | NS-NON-STICKY |
| FR-FRIABLE | SS-SLIGHTLYSTICKY |
| FI-FIRM | S-STICKY |
| VFI-VERY FIRM | VS-VERY STICKY |
| EFI-EXTREMELY FIRM | NP-NON-PLASTIC |
| | SP-SLIGHTLYSTICKY |
| | P-PLASTIC |
| | VP-VERY PLASTIC |

STRUCTURE

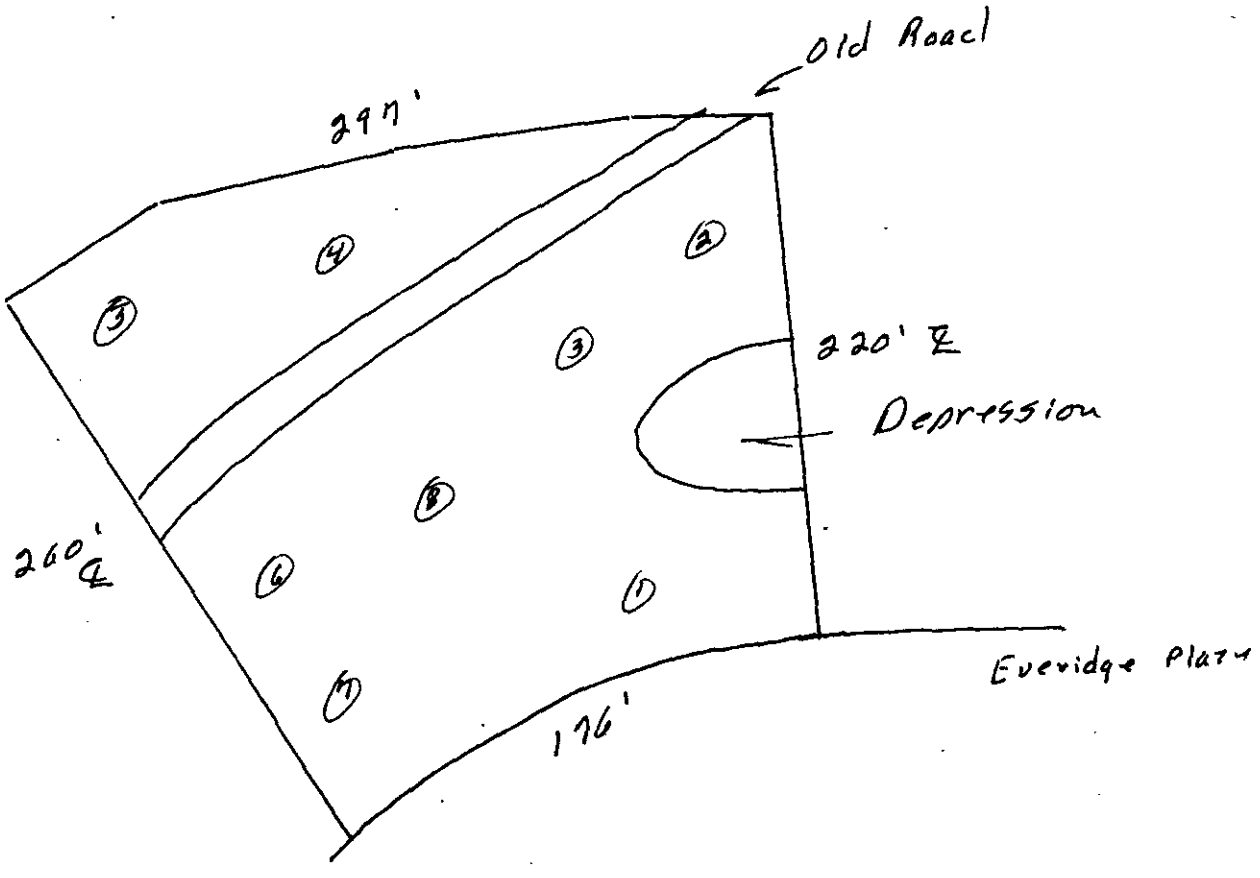
SG-SINGLE GRAIN
M-MASSIVE
CR-CRUMB
GR-GRANULAR
SBK-SUBANGULAR BLOCKY
ABK-ANGULAR BLOCKY
PL-PLATY
PR-PRISMATIC

MINERALOGY

SLIGHTLY EXPANSIVE

EXPANSIVE

N



FEE: 200

DATE: 3/28/02

# APPLICATION FOR IMPROVEMENT PERMIT FOR RESIDENTIAL SITE INDIVIDUAL WATER AND WASTEWATER SYSTEMS PROGRAM

Paid $100 5/2/02 #
Optional Site Evaluation
[ ] CRT

TYPE APPLICATION: ✓ NEW SYSTEM __ EXPANSION/ ALTERATION OF EXISTING SYSTEM __ REPAIR OF EXISTING SYSTEM

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT,
HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

FILE #: 4904B

PROPERTY INFORMATION (FROM ENGINEERING FORM) FOR JOB LOCATION:

TAX/PARCEL NUMBER: LOT 14 197-154-01
LOT 13 197-154-02

STREET ADDRESS: Everidge Place - Mint Hill NC

SUBDIVISION OR MOBILE HOME PARK NAME:

LOT NUMBER: #13, #14

TYPE OF BUILDING (CHECK ONE):

__ SINGLE MOBILE HOME(S)
__ DOUBLE WIDE (D)
✓ HOUSE (H)
__ MODULAR HOME (M)
__ MULTIPLE FAMILY (U)
__ OTHER (O)

HEATED SQUARE FOOTAGE: 6,000 Sq FT.

NUMBER OF BEDROOMS: 4 | NUMBER OF OCCUPANTS: 4

FOUNDATION FOR RESIDENCE:

__ WITHOUT BASEMENT
__ ON SLAB
__ CRAWL SPACE
✓ WITH BASEMENT /PLUMBING
__ WITH BASEMENT /NO PLUMBING

TOWNSHIP (CHECK ONE):

✓ 0 MECKLENBURG
__ 1 CHARLOTTE
__ 2 DAVIDSON
__ 3 CORNELIUS
__ 4 PINEVILLE
__ 5 MATTHEWS
__ 6 HUNTERSVILLE
__ 7 MINT HILL

CLOSING DATE

Please call 1st before going to sail test at 704 363-1820 or 704 573-4279.
Noemi Cruz

IF EXPANSION/ALTERATION OF EXISTING SYSTEM, DESCRIBE THE PROPOSED BUILDING ADDITION:

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE: __ YES ✓ NO TYPE:

WATER SUPPLY (CHECK ONE):
__ COMMUNITY (C)
__ MUNICIPAL (M)
✓ PRIVATE WELL (P)
__ SHARED WELL (S)
__ OTHER 'SPRINGS' (O)

IF ANY OF THE FOLLOWING ARE LOCATED ON THE PROPERTY, PLEASE SHOW LOCATION ON PLAT:

| | | | |
|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | __ YES __ NO | WELL, SPRINGS OR WATERLINES | __ YES __ NO |
| EXISTING WASTEWATER SYSTEMS | __ YES __ NO | DESIGNATED WETLANDS | __ YES __ NO |
| EASTMENTS OR RIGHT-OF-WAYS | __ YES __ NO | | |

PROPERTY OWNER:

NAME: (LAST) Black, (FIRST) Thomas R. (MI) and wife Pattie Black

ADDRESS: P.O Box 1365

CITY: Pinehurst STATE: NC ZIP: 28374

DAYTIME PHONE: ( ) —

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: (LAST) Cruz (FIRST) Santiago (MI) and wife Noemi Cruz

DAYTIME PHONE: ( ) 704 573-4279
704 363-1820

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?

An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes agents of the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

SIGNED: Noemi Cruz DATE: 3/27/02

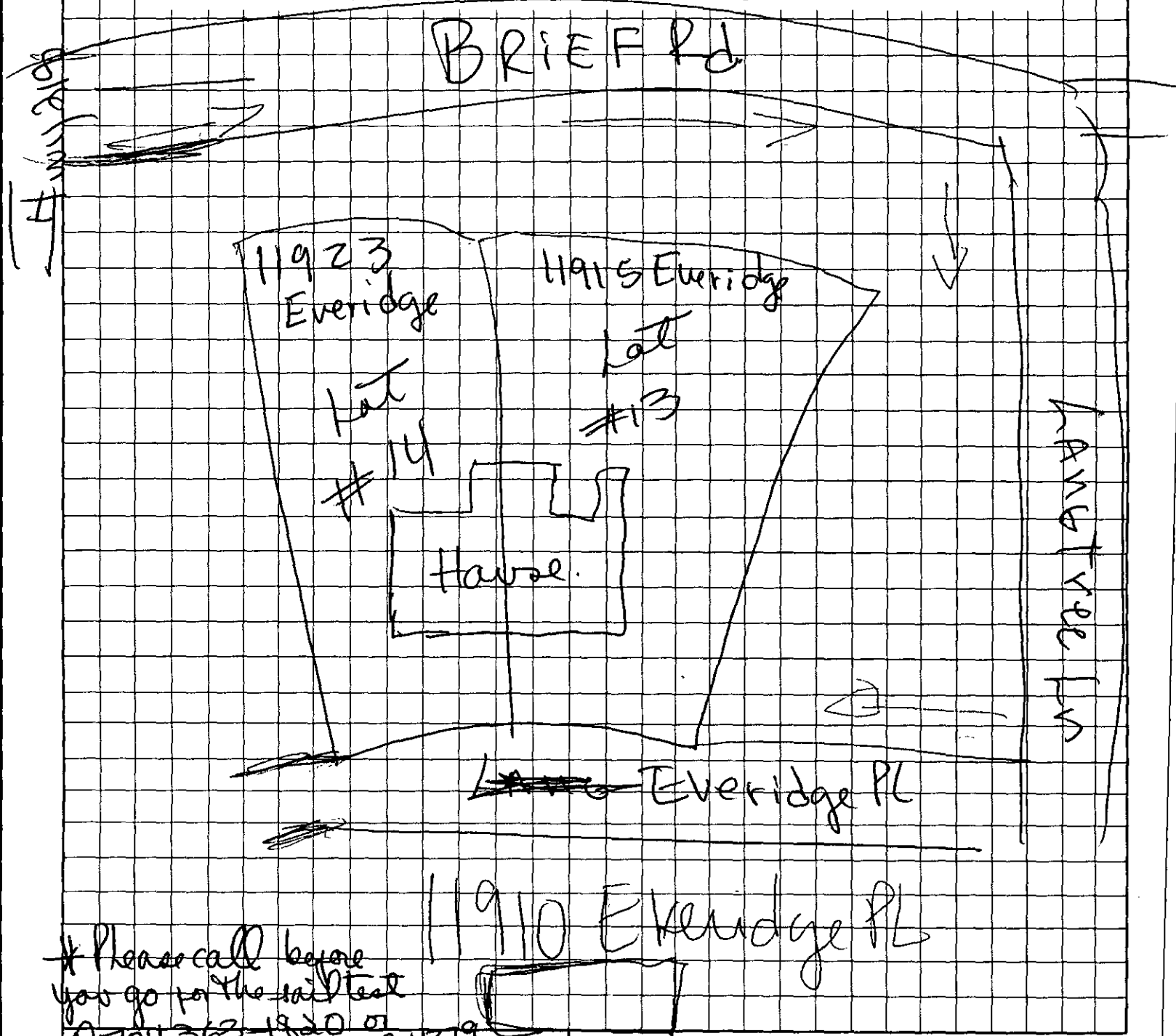
MECKLENBURG COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
c/o HAL MARSHALL CTR., SUITE 211, 700 N. TRYON ST., CHARLOTTE, N.C. 28202., (704) 336-5102

# PROPOSED PLOT PLAN

HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH DIVISION
700 NORTH TRYON STREET
CHARLOTTE, NC 28202
PHONE (704) 336-5102

FILE: 4904B
197.154.02 = Lot #13
TC: ~~197.154.01 = Lot #14~~

Draw in and name all roads adjoining the property. Draw in and accurately dimension the lot concerned. Accurately indicate property boundaries proposed and/or existing structures and driveways, underground utilities, and wells and springs within 100 feet of the proposed building or drainfield.




* Please call before you go to the soil test
704 363-1820 or 573-4219

Naomi Cruz
OWNER/AGENT SIGNATURE

DATE 3/28/02

APPROVAL DATE _____

White - Health Department's Copy  Canary - E.H.S. Copy  Pink - Owner's Copy

**Groundwater & Wastewater Services**
**Well Project File & Data Review Worksheet**

GWS File #: 490413 WASPS App #: 2272

Primary ES assigned to project: David Cornelius

Secondary ES assigned to project: _____

Project Type: New Well ☑ Well Abandonment ☐ Major Repair ☐

Septic System Status: Permit in progress ☑ System installation completed ☐ N/A-Sewer ☐

**I. File Review:**

| | | | |
|---|---|---|---|
| Completed application | Yes ☑ | No ☐ | |
| ARGU review report | Yes ☐ | No ☐ | N/A ☑ |
| Signed permit | Yes ☐ | No ☐ | |
| Notification of disinfection | Yes ☐ | No ☐ | N/A ☐ |
| Sample Results | TC ☐ | Nitrate/Nitrite ☐ | Other ☐ N/A ☐ |
| GW-1 Form / GW-30 Form | Yes ☐ | No ☐ | |
| Other related documentation | Yes ☐ | No ☐ | N/A ☐ |

# Items requiring correction/modification: _____

Comments: 7/26/07 – please contact applicant to advise permit is ready

**II. WASPS Review:**

| | | | |
|---|---|---|---|
| Completed application w/ valid address | Yes ☑ | No ☐ | |
| ARGU review completed | Yes ☐ | No ☐ | N/A ☑ |
| Permit issued | Yes ☑ | No ☐ | |
| Activity checklist completed | Yes ☐ | No ☐ | |
| Appropriate comments included | Yes ☐ | No ☐ | |
| Site information record completed | Yes ☐ | No ☐ | |
| Well detail record completed | Yes ☐ | No ☐ | |

# Items requiring correction/modification: _____

Comments:

Application received date: 5/9/07 ES assigned date: _____ Permit issued date: 7/26/07

Well approval date: _____ Number of days to complete project: _____

Review performed by: _____ Date performed: _____

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St, Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

# PERMIT TO CONSTRUCT A WATER SUPPLY WELL

**Permit #:** 10002272 **File #:** 4904B **Tax Parcel #:** 197-154-01
**Property Owner:** SANTIAGO & NOEMI CRUZ
**Job Location Address:** 11905 EVERIDGE PL
**City/ETJ:** CHARLOTTE **State:** NC **Zip Code:** 28227
**Permit Issuance Date:** 7/26/2007
**Use of Well:** Irrigation
**Type of Facility Served by Well:** House
**Sewage System Type:** New System

**Area of Regulated Groundwater Usage Restrictions Apply:** NO
**Replacement for Existing Well:** If Yes, see requirements in Other Conditions of This Permit

**General Conditions of This Permit:**

- Water Supply Well construction must meet all requirements set forth in the *Mecklenburg County Groundwater Well Regulations* and any other applicable rules and laws.
- A North Carolina Certified Well Contractor must perform the well construction activities.
- The permitted Water Supply Well shall be located in accordance with the attached SITE PLAN.
- Any alteration of the site (including location of structures and appurtenances) or modification in use of the well, may subject this Permit to revocation.
- The Department will collect an initial sample of water from the Water Supply Well and analyze the sample for total coliform bacteria, nitrate, and nitrite. A review of the analysis by the Department must find the sample to meet the groundwater quality standards specified in Chapter 5 of the Mecklenburg County Groundwater Well Regulations before the Water Supply Well can be placed in service.
- This Permit shall be VALID for a period not to exceed 12 months from the date of issuance.

**Specific Conditions of This Permit (Check all that apply):**

☐ Grout must be placed the full extent of the casing. ☐ Casing to bedrock

☐ Initial water sample to be taken and analyzed for (check all that apply):

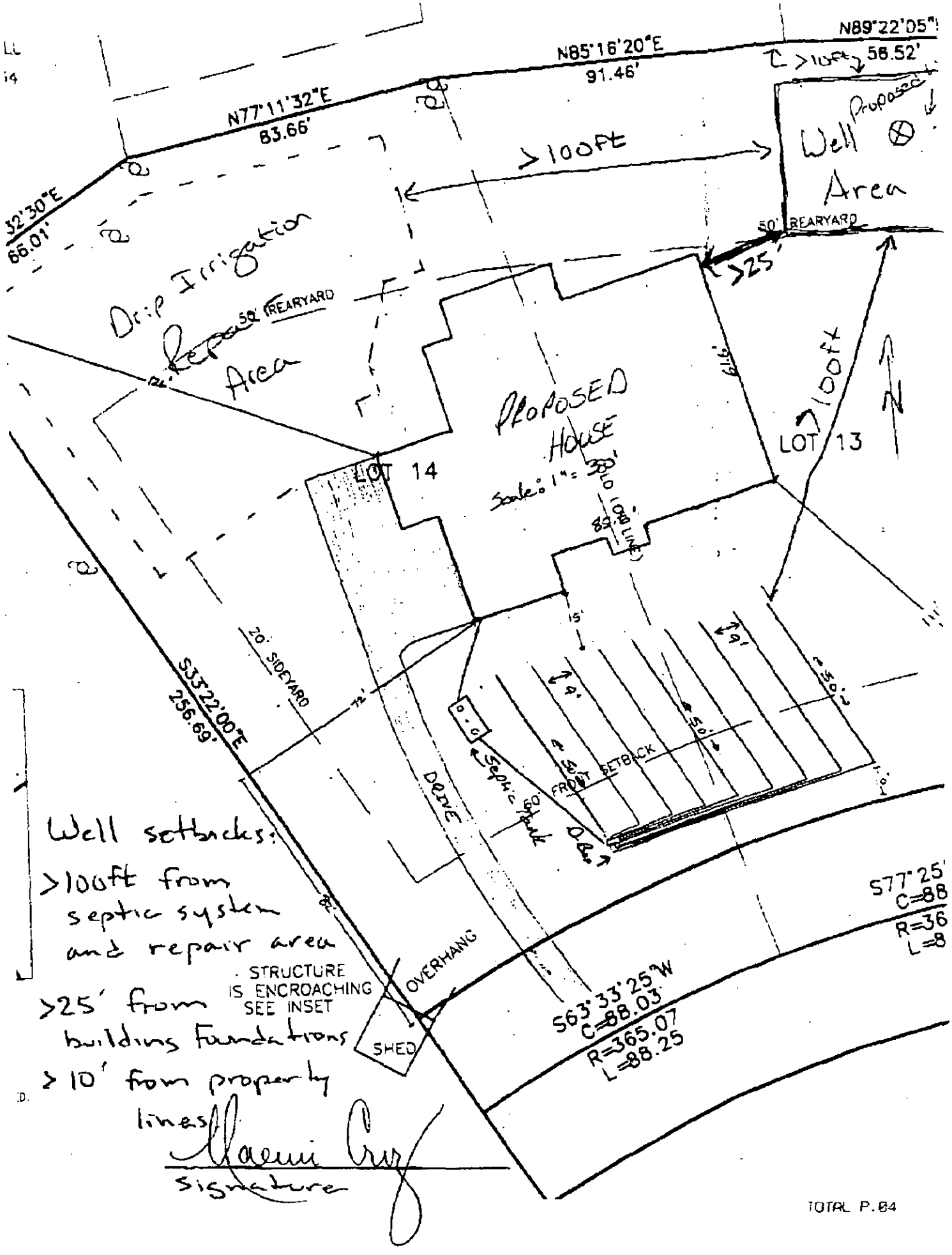
☐ Volatile Organic Compounds (VOC's) ☐ Semi-volatile Compounds ☐ Metals (Specify in Other Conditions)
☐ Pesticides ☐ Herbicides ☐ Other (See Below)

The analysis must be submitted to the Department for review and approval prior to the Water Supply well being placed in service.

**Other Conditions of This Permit:**

Authorized Agent: David Clarelius, RS Print Name
Signature:

Owner/Legal Agent: Noemi Cruz Print Name
Signature:




Well setbacks:
>100ft from septic system and repair area
>25' from building foundations
> 10' from property lines

Noemi Cruz
signature

Mecklenburg County Health Department
Groundwater & Wastewater Services
700 N. Tryon St, Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

# PERMIT TO CONSTRUCT A WATER SUPPLY WELL

**Permit #:** 10002272 **File #:** 4904B **Tax Parcel #:** 197-154-01
**Property Owner:** SANTIAGO & NOEMI CRUZ
**Job Location Address:** 11905 EVERIDGE PL
**City/ETJ:** CHARLOTTE **State:** NC **Zip Code:** 28227
**Permit Issuance Date:** 7/26/2007
**Use of Well:** Irrigation
***Type of Facility Served by Well:*** House
**Sewage System Type:** New System

**Area of Regulated Groundwater Usage Restrictions Apply:** NO

**Replacement for Existing Well:** If Yes, see requirements in Other Conditions of This Permit.

**General Conditions of This Permit:**

- Water Supply Well construction must meet all requirements set forth in the *Mecklenburg County Groundwater Well Regulations* and any other applicable rules and laws.
- A North Carolina Certified Well Contractor must perform the well construction activities.
- The permitted Water Supply Well shall be located in accordance with the attached SITE PLAN.
- Any alteration of the site (including location of structures and appurtenances) or modification in use of the well, may subject this Permit to revocation.
- The Department will collect an initial sample of water from the Water Supply Well and analyze the sample for total coliform bacteria, nitrate, and nitrite. A review of the analysis by the Department must find the sample to meet the groundwater quality standards specified in Chapter 5 of the Mecklenburg County Groundwater Well Regulations before the Water Supply Well can be placed in service.
- This Permit shall be VALID for a period not to exceed 12 months from the date of issuance.

**Specific Conditions of This Permit (Check all that apply):**

☐ Grout must be placed the full extent of the casing. ☐ *Casing to bedrock*

☐ Initial water sample to be taken and analyzed for (check all that apply):

☐ Volatile Organic Compounds (VOC's) ☐ Semi-volatile Compounds ☐ Metals (Specify in Other Conditions)

☐ Pesticides ☐ Herbicides ☐ Other (See Below)

The analysis must be submitted to the Department for review and approval prior to the Water Supply well being placed in service.

**Other Conditions of This Permit:**

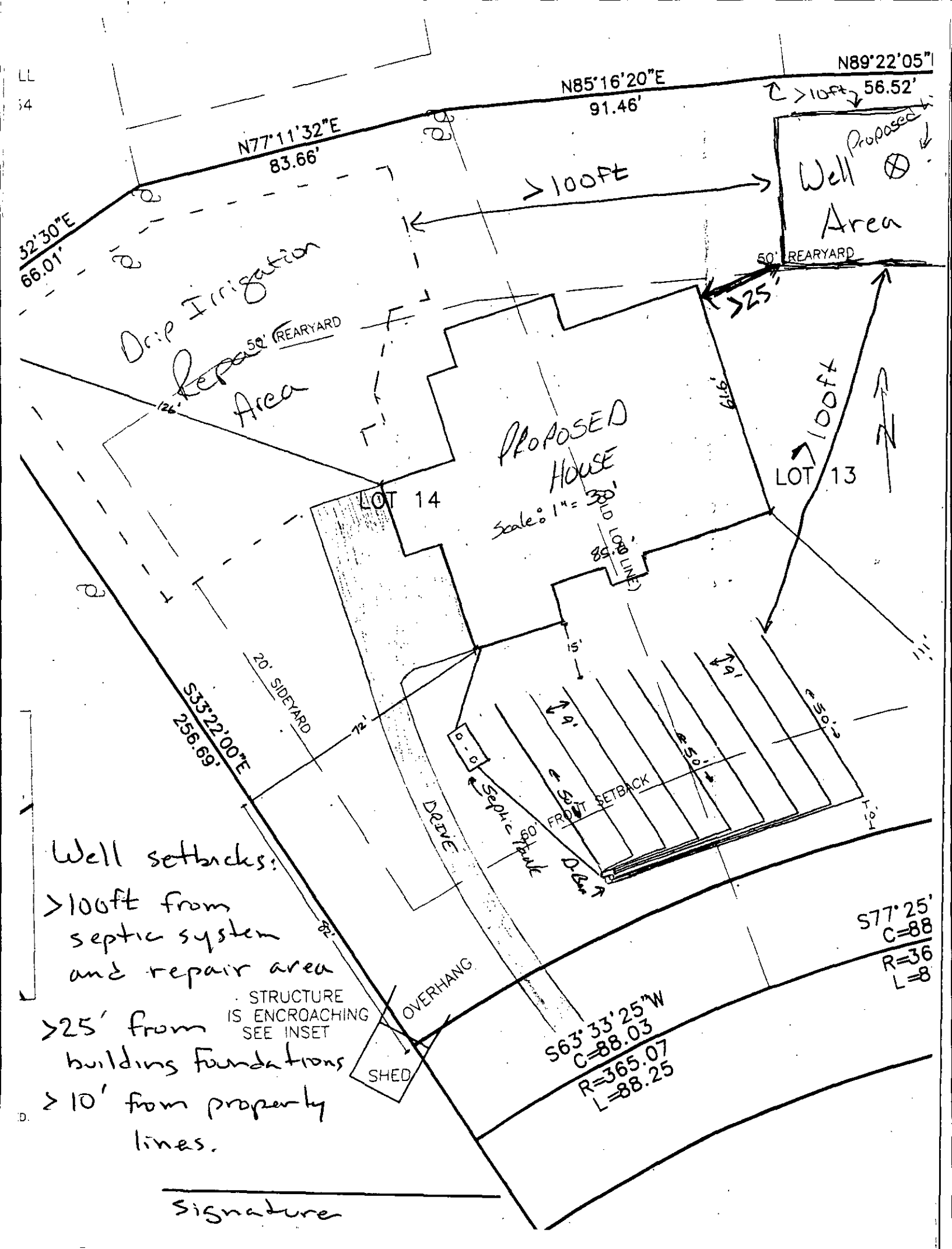
DAVID CORNELIUS, RS

Authorized Agent: Print Name

Signature:

Owner/Legal Agent: Print Name

Signature:




Well setbacks:

>100ft from septic system and repair area

>25' from building foundations

>10' from property lines.

Signature

FILE NUMBER: 4904B

SEPTIC FEE: 500.00
DATE: 5/9/07
CK# 7922 JKA

Revised On: January 3, 2007

APPLICATION NUMBER: 2272

# MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES
## APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

WELL FEE: 40.00
DATE: 5/9/07
CK# 7922 JKA

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☐ NONE ☑ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 197-154-01
STREET ADDRESS: 11905 Everidge PL
CITY: Charlotte
STATE: NC ZIP: 28227
SUBDIVISION NAME: —
LOT #: 13-14 LOT SIZE (acres):
TOWNSHIP:
☑ 0-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. BUILDING INFORMATION:

BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☑ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: 5,461
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A
NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ☐ MUNICIPAL ☐ PUBLIC WELL ☑ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

7. PROPOSED USE OF WELL: ☐ N/A ☑ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☑ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

| | | | | | |
|---|---|---|---|---|---|
| BURIED CABLES, LANDFILLS, STUMPHOLES | ☐ YES | ☑ NO | GRADING/SOIL REMOVAL PERFORMED | ☐ YES | ☑ NO |
| EXISTING WASTEWATER SYSTEMS | ☐ YES | ☑ NO | JURISDICTIONAL WETLANDS | ☐ YES | ☑ NO |
| WELLS, SPRINGS, OR WATER LINES | ☐ YES | ☑ NO | APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY | ☐ YES | ☑ NO |
| EASEMENTS OR RIGHT-OF-WAYS | ☐ YES | ☑ NO | WASTEWATER OTHER THAN DOMESTIC SEWAGE | ☐ YES | ☑ NO |

10. PROPERTY OWNER:

NAME: Santiago & Noemi Cruz
ADDRESS: 11910 Everidge PL
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: 704 573-4279 WORK PHONE: 704 545-8885
MOBILE PHONE: 704 545-8886 FAX: Cell: 704 202-4846
Fax

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE: WORK PHONE:
MOBILE PHONE: FAX:

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? _____

13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

Property Owner's or Owner's Legal Representative Signature — Date 5/9/07

15. WELL PERMIT APPLICATION SIGNATURE SECTION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of 12 months from the date of issuance.

Property Owner's or Owner's Legal Representative Signature — Date 5/9/07

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

MECKLENBURG COUNTY-GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211, CHARLOTTE, NC 28202 PHONE: (704) 336-5103 FAX: (704) 336-6894

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

**OPERATION PERMIT for an**
**ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**

File #: 49048 Permit #: _____ Tax Parcel #: 197-154-01

Property Owner: SANTIAGO & NOEMI CRUZ

Job Location Address: 11905 EVERIDGE PLACE

City: CHARLOTTE State: NC Zip Code: 28227

**Operation Permit Issuance Date:** 4/24/08 Contractor Name: WATER MANAGEMENT

Permitted Design Flow: 480 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: N/A gallons

Effluent Pump Model: N/A

Drainfield Installation ☐ N/A

Trench Depth: 16 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 450 feet

# of Lines: 9 @ 50 feet

Depth of Media: N/A inches (Type) 111

Depth of Cover: _____ inches 4"+8" ADDITIONAL COVER

Distribution Device: DROP TEE

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 5 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 750 feet

Inspection Dates

Tank(s) Inspected: 4/24/08

Excavation Inspected: 4/24/08

Pump & Controls Inspected: N/A

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)

INSTALLED ACCORDING TO PLANS ON FILE
SUBMITTED BY LARRY THOMPSON,
6/26/07

The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☐ as detailed in the plot above ☒ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

**Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.**

Comments: System Classification & Type: IIIg, INNOVATIVE, CHAMBERS 25% REDUCTION.
INSTALLED ACCORDING TO PLAN. (IQ4W, G, N/A, N/A).

DENR Authorized Agent: DAVID CORNELIUS Signature: _____, RS

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

**OPERATION PERMIT for an**
**ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM**

File #: 4904B Permit #: _____ Tax Parcel #: 197-151-01

Property Owner: SANTIAGO & NOEMI CRUZ

Job Location Address: 11905 EVERIDGE PLACE

City: CHARLOTTE State: NC Zip Code: 28227

**OPERATION PERMIT CONDITIONS:**

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIa

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☒ System does not require inspection by GWS on a routine frequency.

☐ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

_____

_____

_____

_____

DENR Authorized Agent: DAVID CORNELIUS Date: 4/24/08

Signature: _____, RS